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A highly diverse library of yeast expression vectors encoding a library of fusion proteins such as antibodies is provided. The yeast expression vector formed in the library comprises: a first nucleotide sequence encoding a first polypeptide subunit; a second nucleotide sequence encoding a second polypeptide subunit; and a linker sequence encoding a linker peptide that links the first nucleotide sequence and the second nucleotide sequence. The first polypeptide subunit, the second polypeptide subunit, and the linker polypeptide are expressed as a single fusion protein within the library of fusion proteins. The first and second nucleotide sequences each independently varies within the library of expression vectors. The library of fusion proteins expressed by the library expression vectors can be used for screening against target molecules such as proteins, peptides, DNAs and small molecules *in vitro* and *in vivo*.